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INFORMATION REPORT

[redacted]

COUNTRY East Germany/China

SUBJECT Development of an Electron Microscope at VEB Werk fuer Fernmeldewesen

PLACE ACQUIRED [redacted]

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This is UNEVALUATED

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1. The electron microscope being developed at the Werk fuer Fernmeldewesen, Berlin-Oberschoeneweide is now functioning well. The focusing of the instrument was causing some difficulties, but this problem was solved in three ways: by mechanical focusing, by hydraulic focusing with oil, and by hydraulic focusing with water.

2. Red China has ordered 2,000 such electron microscopes. Since the price per microscope amounts to 100,000 DME, however, China thus far received only one microscope. This electron microscope was set up in Peking by Ing. Schramm (fnu). As yet the USSR has not ordered any electron microscopes from the Werk fuer Fernmeldewesen. Poland and Czechoslovakia, however, have evinced interest in the instrument.

3. The Werk fuer Fernmeldewesen is carrying out semi-conductor measurements on selenium in the 2.5 centimeter wave length. Germanium is needed for detectors, magnetometers and field strength measurements (Hall effect). These devices are also used by the Dralowid and Zeiss firms. The last germanium delivery was received from Halle.

4. Aluminum is now being used as a substitute for copper in high frequency cables and lines. The Werk fuer Fernmeldewesen does not manufacture any cables and lines of this type, but has contracts for [redacted] Teltow, and VEB Carl Zeiss, Jena.

[redacted]

Comment. VEB Werk fuer Bauelemente der Nachrichtentechnik "Carl von Ossietzky", Teltow, and VEB Carl Zeiss Jena.

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